CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027 .
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

18th July 2016

Dear Sir,

Sub: Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.15 X 150.0	22544	17/06/2016	15/07/2016	28	8.18	490	**21.78**	**22.00**
2		150.18 X 150.16 X 150.0	22551				8.20	495	**22.00**	
3		150.14 X 150.15 X 150.0	22544				8.22	500	**22.22**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(W4)

CIVIL TECH LABS
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.12 X 150.13 X 150.0	22538	17/06/2016	15/07/2016	28	8.16	495	**22.00**	**22.37**
2		150.15 X 150.14 X 150.0	22544				8.17	505	**22.44**	
3		150.16 X 150.18 X 150.0	22551				8.20	510	**22.67**	

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

AE(WO7)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

(KHUSHBOO L)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.17 X 150.18 X 150.0	22553	17/06/2016	15/07/2016	28	8.14	500	**22.22**	**22.44**
2		150.14 X 150.16 X 150.0	22545				8.17	505	**22.44**	
3		150.15 X 150.16 X 150.0	22547				8.18	510	**22.67**	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, BBMP
Bangalore.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(WZ)

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.12 X 150.15 X 150.0	22541	17/06/2016	15/07/2016	28	8.16	480	**21.33**	**22.00**
2		150.12 X 150.17 X 150.0	22544				8.18	495	**22.00**	
3		150.13 X 150.14 X 150.0	22541				8.20	510	**22.67**	

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore

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(KHUSHBOO L.)
Quality Manager

AE(HQ)

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.14 X 150.15 X 150.0	22544	20/06/2016	18/07/2016	28	8.16	495	**22.00**	**22.22**
2		150.13 X 150.12 X 150.0	22538				8.19	500	**22.22**	
3		150.15 X 150.13 X 150.0	22542				8.20	505	**22.44**	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(WZ)

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.13 X 150.16 X 150.0	22544	20/06/2016	18/07/2016	28	8.19	500	**22.22**	**22.59**
2		150.14 X 150.12 X 150.0	22539				8.20	510	**22.67**	
3		150.16 X 150.15 X 150.0	22547				8.23	515	**22.89**	

Note:

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AE(WZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.14 X 150.16 X 150.0	22545	20/06/2016	18/07/2016	28	8.20	495	**22.00**	**22.52**
2		150.15 X 150.14 X 150.0	22544				8.21	510	**22.67**	
3		150.16 X 150.15 X 150.0	22547				8.22	515	**22.89**	

Note:

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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(KHUSHBOO L.)
Quality Manager

AE (WZ)

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

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T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

03rd June 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of the Agency	Sri. Sambashiva
Date of Testing	03/06/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	486	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Note:

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(KHUSHBOO L.)
Quality Manager

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Date of Testing	03/06/2016
Specific Gravity	**2.58**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**97.4**	90-100	90-100	90-100	95-100		
	2.36	**83.6**	60-95	75-100	85-100	95-100		
	1.18	**77.5**	30-70	55-90	75-100	90-100		
	0.6	**46.2**	15-34	35-59	60-79	80-100		
	0.3	**25.8**	5-20	8-30	12-40	15-50		
	0.15	**8.2**	0-10	0-10	0-10	0-15		

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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A.E(W) N.D

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Date of Testing	03/06/2016
Specific Gravity	**2.68**
Water Absorption	**0.27%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**98.6**	95-100	
20	**53.6**	30-70	
10	**25.8**	10-35	
4.75	**4.3**	0-5	

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

AE(Log)

CIVIL TECH LABS

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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of the Agency	Sri. Sambashiva
Date of Testing	03/06/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	13.5	12	Satisfactory
5	Yield Stress(N/Sq.mm)	504	500	Satisfactory
6	U T S (N/Sq.mm)	560	545	Satisfactory

Assistant Executive Engineer
Kodihalli Sub Division
Yelahanka Zone, B.B.M.P.,
Bangalore.

Note:
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4. The results are based on the test conducted on samples supplied by the client.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(Wt)

CIVIL TECH LABS

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Kodihalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of the Agency	Sri. Sambashiva
Date of Testing	03/06/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.2	12	Satisfactory
5	Yield Stress(N/Sq.mm)	509	500	Satisfactory
6	U T S (N/Sq.mm)	565	545	Satisfactory

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P. Bangalore.

Note:

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AE(WS)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

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T-2654

To,

Assistant Executive Engineer,
Kodigehalli Sub Division,
BBMP.

11th July 2016

Dear Sir,

Sub: Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.12 X 150.14 X 150.0	22539	13/06/2016	11/07/2016	28	8.15	480	**21.33**	**21.63**
2		150.17 X 150.15 X 150.0	22548				8.18	485	**21.56**	
3		150.16 X 150.15 X 150.0	2276				8.20	495	**22.00**	

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE(WZ)

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.12 X 150.14 X 150.0	22539	13/06/2016	11/07/2016	28	8.16	485	**21.56**	**21.93**
2		150.15 X 150.16 X 150.0	22547				8.18	495	**22.00**	
3		150.13 X 150.12 X 150.0	22538				8.19	500	**22.22**	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Note:

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AE(W7)

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Kodigehalli Sub Division, BBMP.
Name of Work	Improvements to roads and drains near Meesa Hanumanthappa House area Amruthahalli in ward no. 7, Byatarayanapura, Kodigehalli Sub Division.
Name of Agency	Sri. Sambashiva
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.14 X 150.15 X 150.0	22544	13/06/2016	11/07/2016	28	8.18	485	**21.56**	**22.00**
2		150.15 X 150.16 X 150.0	22547				8.19	495	**22.00**	
3		150.12 X 150.13 X 150.0	22538				8.20	505	**22.44**	

Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

Note:

1. The results relate only to the items tested.
2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Rs Lpkl. N.D
AE(W7)

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1	Sample-4	150.15 X 150.16 X 150.0	22547	13/06/2016	11/07/2016	28	8.19	490	**21.78**	**22.15**
2		150.13 X 150.14 X 150.0	22541				8.20	495	**22.00**	
3		150.14 X 150.12 X 150.0	22539				8.22	510	**22.67**	

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore

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